

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-111847

(43)Date of publication of application : 21.04.2000

(51)Int.Cl.

G02C 7/04
G08F 30/02

(21)Application number : 10-278796

(71)Applicant : NOF CORP
NAKABAYASHI NORIO
ISHIHARA KAZUHIKO

(22)Date of filing : 30.09.1998

(72)Inventor : NAKAZATO KATSUMI
INOMATA KIYOSHI
NAKABAYASHI NORIO
ISHIHARA KAZUHIKO

(54) SOFT CONTACT LENS MATERIAL

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain excellent mechanical strength and durability by polymerizing monomers having specified phosphorylcholine analog groups, monomers copolymerizable with the first monomers, and crosslinking monomers having ≥ 4 functional groups.

SOLUTION: This material is produced by polymerizing monomers having phosphorylcholine analog groups expressed by the formula, monomers copolymerizable with the first monomers, and crosslinking monomers having ≥ 4 functional groups. In the formula, R1 is a hydrogen atom or methyl group, R2 is $(\text{CH}_2\text{CHR}_6)_n$, $(\text{CH}_2\text{CHR}_6\text{O})_n\text{CH}_2\text{CHR}_6$ (wherein R6 is a hydrogen atom or methyl group and n is an integer 1 to 8) or 3-10C hydrocarbon group, m is an integer 2 to 4, and R3 to R5 are 1-8C alkyl groups. As for the monomers expressed by the formula, for example, 2-(meth)acryloyloxyethyl-1-2-(trimethylammonio)ethylphosphate can be used.

